WHAT IS CLAIMED IS:

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An electronic connector connected to a sensor or a switch, and 1 1. communicating a signal through a common bus, comprising: 2 an I/O unit, receiving a signal from the sensor or the switch; 3 a control unit, generating a control signal for controlling the driving of a 4 load corresponding to the sensor or the switch according to the signal received 5 from the I/O unit; and a communication unit, having a function of decoding the control signal, 7 and transmitting the control signal to an equipment connected to the 8 . corresponding load through the common bus. 9 The electronic connector as set forth in claim 1, wherein the equipment 2. 1 is at least one of the electronic connector, an electronic control unit and an auxiliary equipment module having a function of generating the control signal. 3 The electronic connector as set forth in claim 1, wherein the common 1 3. bus is a dedicated communication line. 2 The electronic connector as set forth in claim 1, wherein the common 1 4. bus is a power supply line; and 2 wherein the control signal is transmitted while being superposed on the 3 power supply line. 4

An electronic connector connected to a load, and communicating a

- 2 signal through a common bus, comprising:
- a communication unit, receiving a control signal for controlling the
- 4 driving of the load through the common bus;
- a control unit, decoding the control signal, and generating a drive signal
- 6 for driving the load; and
- 7 a load driving unit, driving the load according to the drive signal.
- 1 6. The electronic connector as set forth in claim 5, wherein the load is at
- 2 least one electronic component out of a plurality of electronic components
- 3 contained in an auxiliary equipment module.
- 1 7. The electronic connector as set forth in claim 6, further comprising an
- 2 I/O unit which receives a signal from at least one sensor or at least one switch
- 3 out of the plurality of electronic components,
- wherein the control unit generates the drive signal for driving the load
- 5 according to the signal received from the I/O unit.
- 1 8. The electronic connector as set forth in claim 7, wherein the control unit
- 2 generates a control signal for controlling the driving of a load corresponding to
- 3 the sensor or the switch according to the signal received from the I/O unit;
- wherein the communication unit has a function of decoding the control
- 5 signal; and
- 6 wherein the communication unit transmits the control signal to an
- 7 equipment connected to the corresponding load through the common bus.

- 1 9. The electronic connector as set forth in claim 5, wherein the equipment
- 2 is at least one of the electronic connector, an electronic control unit and an
- 3 auxiliary equipment module having a function of generating the control signal.
- 1 10. The electronic connector as set forth in claim 5, wherein the common
- 2 bus is a dedicated communication line.
- 1 11. The electronic connector as set forth in claim 5, wherein the common......
- 2 bus is a power supply line; and
- wherein the control signal is transmitted while being superposed on the
- 4 power supply line.
- 1 12. An auxiliary equipment module having a plurality of electronic
- 2 components, and communicating a signal through a common bus, comprising:
- a communication unit, receiving a control signal for controlling the
 - 4 driving of at least one load out of the plurality of electronic components;
 - a control unit, decoding the control signal, and generating a drive signal
 - 6 for driving the load; and
 - 7 a load driving unit, driving the load according to the drive signal.
 - 1 13. The auxiliary equipment module as set forth in claim 12, further
 - 2 comprising an I/O unit, receiving a signal from at least one sensor or at least one
 - 3 switch out of the plurality of electronic components,
 - wherein the control unit generates the drive signal for driving the load
 - 5 according to the signal received from the I/O unit.

- 1 14. The auxiliary equipment module as set forth in claim 13, wherein the
- 2 control unit generates a control signal for controlling the driving of a load
- 3 corresponding to the sensor or the switch according to the signal received from
- 4 the I/O unit;
- wherein the communication unit has a function of decoding the control
- 6 signal; and
- 7 wherein the communication unit transmits the control signal to the
- 8 equipment connected to the corresponding load through the common bus.
- 1 15. The auxiliary equipment module as set forth in claim 11, wherein the
- 2 equipment is at least one of the electronic connector, an electronic control unit
- 3 and an auxiliary equipment module having the function of generating the control
- 4 signal.
- 1 16. The auxiliary equipment module as set forth in claim 12, wherein the
- 2 common bus is a dedicated communication line.
- 1 17. The auxiliary equipment module as set forth in claim 12, wherein the
- 2 common bus is a power supply line; and
- 3 wherein the control signal is transmitted while being superposed on the
- 4 power supply line.